



# भारत का राजपत्र The Gazette of India

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NEW DELHI, SATURDAY, NOVEMBER 3, 1990 (KARTIKA 12, 1912)

इस भाग में भिन्न पृष्ठ संख्या दी जाती है जिससे कि यह अलग संकलन के रूप में रखा जा सके  
[Separate paging is given to this Part in order that it may be filed as a separate compilation]

## भाग III—खण्ड 2 [PART III—SECTION 2]

पेटेंट कार्यालय द्वारा जारी की गई पेटेंटों और डिजाइनों से सम्बन्धित अधिसूचनाएं और नोटिस  
[Notifications and Notices Issued by the Patent Office relating to Patents and Designs]

THE PATENT OFFICE  
PATENTS AND DESIGNS

Calcutta, the 3rd November 1990

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The Patent Office has its Head Office at Calcutta and Branch Offices at Bombay, Delhi and Madras having territorial jurisdiction on a zonal basis as shown below :—

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Todi Estates, III Floor,  
Lower Parel (West),  
Bombay-400 013.

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The States of Andhra Pradesh, Karnataka, Kerala, Tamilnadu, and the Union Territories of Pondicherry, Laccadive, Minicoy and Aminidivi Islands.

Telegraphic address "PATENTOFIS".

Patent Office (Head Office),  
"NIZAM PALACE", 2nd M.S.O. Bldg.,  
5th, 6th and 7th Floor,  
234/4, Acharya Jagdish Bose Road,  
Calcutta-700 020.

Rest of India.

Telegraphic address "PATENTS".

All applications, notices, statements or other documents or any fees required by the Patents Act, 1970 or the Patents Rules, 1972 will be received only at the appropriate Offices of the Patent Office.

**Fees .—**The fees may either be paid in cash or may be sent by Money Order or Postal Order, payable to the Controller at the appropriate Offices or by Bank Draft or Cheque, payable to the Controller drawn on a scheduled bank at the place where the appropriate office is situated.

## पेटेंट कार्यालय

एकस्व तथा अभिकल्प

कलकत्ता, दिनांक 3 नवम्बर 1990

पेटेंट कार्यालय के कार्यालयों के पते एवं क्षेत्राधिकार

पेटेंट कार्यालय का प्रधान कार्यालय कलकत्ता में स्थित है तथा बम्बई, विल्ली एवं मद्रास में इसके शाखा कार्यालय हैं, जिनके प्रादेशिक क्षेत्राधिकार जोन के आधार पर निम्न रूप में प्रदर्शित हैं :—

पेटेंट कार्यालय शाखा, टोडी इस्टेट,  
तीसरा तल, लोअर परेल (पश्चिम),  
बम्बई-400 013

गुजरात, महाराष्ट्र तथा मध्य प्रदेश राज्य क्षेत्र एवं संघ शासित क्षेत्र गोवा, दमन तथा दिव एवं दादरा और नगर हवेली।

तार पता—''पेटेंटोफिस''

पेटेंट कार्यालय शाखा,  
इकाई सं० 401 से 405, तीसरा तल,  
नगरपालिका बाजार भवन,  
सरस्वती मार्ग, करोल बाग,  
नई दिल्ली-110 005

हरियाणा, हिमाचल प्रदेश, जम्मू तथा कश्मीर, पंजाब, राजस्थान तथा उत्तर प्रदेश राज्य क्षेत्रों एवं संघ शासित क्षेत्र चंडीगढ़ तथा दिल्ली।

तार पता—''पेटेंटोफिस''

## पेटेंट कार्यालय शाखा,

61, वालाजाह रोड,

मद्रास-600 002

आंध्र प्रदेश, कर्नाटक, केरल, तमिलनाडु राज्य क्षेत्र एवं संघ शासित क्षेत्र पाण्डिचेरी, लक्षद्वीप, मिनिर्कोय तथा एमिनिदिवि द्वीप।

तार पता—''पेटेंटोफिस''

पेटेंट कार्यालय (प्रधान कार्यालय),  
निजाम पैलेस, द्वितीय बहुतलीय कार्यालय  
मकान 5, 6 तथा 7वां तल,  
234/4, आचार्य जगदीश बोस रोड,  
कलकत्ता-700 020

भारत का अवशेष क्षेत्र

तार पता—''पेटेंट्स''

पेटेंट अधिनियम, 1970 या पेटेंट नियम, 1972 में अपेक्षित सभी आवेदन-पत्र, सूचनाएं, विवरण या अन्य प्रलेख पेटेंट कार्यालय के केवल उपयुक्त कार्यालय में ही प्राप्त किए जाएंगे।

शुल्क : —शुल्कों की अदायगी या तो नकद की जाएगी अथवा उपयुक्त कार्यालय में नियंत्रक को भुगतान योग्य घनादेश अथवा डाक आदेश या जहाँ उपयुक्त कार्यालय स्थित है, उस स्थान के अनुसूचित बैंक से नियंत्रक को भुगतान योग्य बैंक ड्राफ्ट अथवा चेक द्वारा की जा सकती है।

## SPECIAL NOTICE

The qualifying examination as prescribed in clause (c) (ii) of Sub-Section (1) of Section 126 of the Patents Act, 1970 read with Rule 95 of the Patents Rules, 1972 will be held at the Patent Office, Calcutta and its branches at Bombay, Madras and New Delhi on Tuesday, the 4th December, 1990.

The schedule of the qualifying examination will be as follows :

Paper I—Patents Act & Rules. 10-30 a.m. to 1-00 p.m.

Paper II—Drafting and interpretation of Patent Specifications and other documents. 2-30 p.m. to 5-00 p.m.

The viva voce Examination will be held on Wednesday, the 5th December, 1990 at 11-00 a.m.

## CORRIGENDA

In the Gazette of India, Part-III, Section-2, dated the 6th October, 1990 in respect of Application for Patent No. 664/Mas/90 under the heading "21st August, 1990" read as "22nd August, 1990".

In the Gazette of India Part III Section-2 dated September 23, 1989 page 930 under heading alteration of date read 165350 Ante-dated (726/Del/86)

9th January, 1985 in place of 165350 Ante-dated 11th January, 1984. (726/Del/86)

APPLICATION FOR PATENTS FILED AT THE HEAD OFFICE  
234/4, ACHARYA JAGADISH BOSE ROAD, CALCUTTA-20

The dates shown in the crescent brackets are the dates claimed Under Section 135, of the Patents Act, 1970.

18th September, 1990

811/Cal/90. Ici India Limited. An improved process for the catalytic hydrogenolysis of the sodium salt of hydroxy mandelic acid to hydroxy phenylacetic acid.

812/Cal/90. Siemens Aktiengesellschaft. Backlash-free, multi-pinion drive.

813/Cal/90. E.I. Du Pont De Nemours and Company. Stitch-stabilized nonwoven fabric.

19th September, 1990

814/Cal/90. E.I. Du Pont De Nemours and Company. Regeneration or activation of noble metal catalyst using fluoro-halocarbons or fluorohalohydrocarbons.

20th September, 1990

- 815/Cal/90. Satake Engineering Co., Ltd. Induction motor.
- 816/Cal/90. Satake Engineering Co., Ltd. Induction motor.
- 817/Cal/90. Aeg Westinghouse Transportation Systems, Inc. Commutator assembly for a dc traction motor.
- 818/Cal/90. Elpatronic Ag. Resistance seam welding machine.
- 819/Cal/90. Samsung Electron Devices Co., Ltd. Apparatus for processing cathode ray tube panel.
- 820/Cal/90. Samiran Das and Sachindra Nath Das. Ready to wear sharee—Indian feminine dress ready to wear.

21st September, 1990

- 821/Cal/90. Dr. Rudolf Edgar Falk, and Dr. Samuel S. Asculai. Treatment of conditions and disease. (Convention date 21st September, 1989; No. 612,307-4; Canada).
- 822/Cal/90. Krone Aktiengesellschaft. Electrical Connectors.
- 823/Cal/90. Reland Industries, Inc. Method and apparatus for producing organic based fertilizer in a batch process.
- 824/Cal/90. Reland Industries, Inc. Method and apparatus for producing organic based fertilizer in continuous process.

24th September, 1990

- 825/Cal/90. Mr. Verinder Kumar Sardana. Tea-micro dryer-cum-heater-cum-oven.
- 826/Cal/90. Westinghouse Electric Corporation. Improvements in or relating to CT quick change assembly and force transmitting spacer.
- 827/Cal/90. P. H. Glatfelter Co. Smoking article wrapper and method of making same. [Divisional date 8th September, 1988].
- 828/Cal/90. Combustion Engineering, Inc. An integrated manufacturing system.
- 829/Cal/90. Johnson & Johnson Medical, Inc. Sterilizer test Pack.

APPLICATIONS FOR PATENT FILED AT THE PATENT  
OFFICE BRANCH, MUNICIPAL MARKET BUILDING, THIRD  
FLOOR, KAROL BAGH, NEW DELHI-110005.

27th August, 1990

- 859/Del/90. Rajesh Nagar, "A process for the preparation of novel pharmacological active compounds, N-pyridino benzamide-2- carboxylic acid, N-pyrimidino benzamide-2-carboxylic acid and their metal complexes".
- 860/Del/90. Rajendra Kumar, "A blade".
- 861/Del/90. Imperial Chemical Industries PLC, "Adsorption Process". (Convention date 24th February, 87, & 12th June, 1986) (U.K.) & [Divisional date 2nd June, 1987].

28th August, 1990

- 862/Del/90. Joginder Lal Bedi, "L.P.G. quantity indicator".

29th August, 1990

- 863/Del/90. Parsons Chain Co. Ltd., "Chain Assemblies". (Convention date 1st September, 1989) (U.K.)

30th August, 1990

- 864/Del/90. Council of Scientific & Industrial Research, "Improvements in or relating to electrocoating of epoxy ester resins on mild steel and aluminium".
- 865/Del/90. Council of Scientific & Industrial Research, "A process for the production of cyclohexanone oxime".

- 866/Del/90. Council of Scientific & Industrial Research, "A process for the preparation of an amorphous sodium aluminium silicate powder useful as property enhanced in fluid composition".

- 867/Del/90. Council of Scientific & Industrial Research, "An improved process for the preparation of alkyl benzenes".

- 868/Del/90. Council of Scientific & Industrial Research, "A process for synthesis of  $\alpha$  (RS)-cyano, P-substituted benzyl (+)cis 2, 2-dimethyl-3-(2, 2-dichlorovinyl) cyclopropane carboxylates". New potent insecticides belonging to synthetic pyrethroid group".

- 869/Del/90. Council of Scientific & Industrial Research, "An improved process for the preparation of monochloroanisole".

- 870/Del/90. Whirlpool Corporation, "Automatic washer basket and agitator drive system".

- 871/Del/90. ZOC, Inc. "Method and apparatus for checking lens focus".

31st August, 1990

- 872/Del/90. BP America Inc, "HCN from crude aceto".

- 873/Del/90. Energy Research Corporation, "Method and apparatus for continuous formation of fibrillate polymer binder electrode component".

- 874/Del/90. Exxon Chemical Patents, Inc, "Olefin polymerization catalysts".

- 875/Del/90. Siemens-Albis Aktiengesellschaft, "Method for message transmission between a plurality of subscriber stations and subscriber station usable therewith".

- 876/Del/90. Riker Laboratories, Inc, "Inhaler". (Convention date 23rd August, 1990) (U.K.).

3rd September, 1990

- 877/Del/90. Kabushiki Kaisha Toshiba, "Two degree of freedom controller".

## 4th September, 1990

- 878/Del/90. Jaidev Khetrapal, "Cellular composite structural sections".
- 879/Del/90. Jaidev Khetrapal, "Cellular structures of symmetrical or asymmetrical sections".
- 880/Del/90. Widen Innovation AB, "Lock and key blade". [Divisional date 15th July, 1987].

## 5th September, 1990

- 881/Del/90. J. D. Khetrapal & Others, "Effluent treatment by soil adsorption".
- 882/Del/90. J. D. Khetrapal & Others, "Synthetic cellular aggregate for concrete mix".
- 883/Del/90. J. D. Khetrapal & Others, "Hexagonal grid related to tanks/structures/packages".
- 884/Del/90. Council of Scientific & Industrial Research, "An improved process for the preparation of  $\alpha$ -bromo-diethyl carbonate".
- 885/Del/90. Council of Scientific & Industrial Research, "An improved process for the preparation of bacampicillin".
- 886/Del/90. Council of Scientific & Industrial Research, "An improved process for the isolation of swertichirin (1, 8-dihydroxy, 3, 5-dimethoxy xanthone) from the plant *swertia chirayita*".
- 887/Del/90. Council of Scientific & Industrial Research, "An improved process for the preparation of 4-phenyl-1-(2-substituted ethyl) imidazolidin-2-ones".
- 888/Del/90. Council of Scientific & Industrial Research, "An electronic control device for uninterrupted supply of conventional and non-conventional (solar) electric energy wherever such supply is required".
- 889/Del/90. Council of Scientific & Industrial Research, "A process for the synthesis of a complex useful as plasticiser-cum stabiliser for the manufacture of plastics".
- 890/Del/90. The Devilbiss Co Ltd., "Spraygun". (Convention date 5th September, 1989) (U.K.).

## 6th September, 1990

- 891/Del/90. Gallay S.A., "Process of fabrication of drum bodies having hoop and the drum bodies so produced". [Divisional date 15th July, 1987].
- 892/Del/90. Airtech Pvt. Ltd., "Compacting equipment".
- 893/Del/90. Ranbaxy Laboratories Ltd., "Process for the manufacture of 7-amino-3-exomethylene-3-cepham-4-carboxylic acid ester".
- 894/Del/90. Richardson-Vicks, Inc., "Photoprotection compositions having reduced dermal irritation".
- 895/Del/90. M. Seshagiri Rao, "All season solar water heating system".

## 7th September, 1990

- 896/Del/90. Imax Systems Corporation, "3-D motion picture Projector."
- 897/Del/90. Imax Systems Corporation, "3-D motion picture projection apparatus".
- 898/Del/90. The Plessey Co. Ltd., "An asynchronous time division multiplex switching system". (Convention date 15th September, 89) (U.K.).

## APPLICATIONS FOR PATENTS FILED IN THE PATENT OFFICE BRANCH AT TODI ESTATES, THIRD FLOOR, SUN MILL COMPOUND, LOWER PAREL (WEST) BOMBAY-13

## 27th August, 1990

- 218/Bom/90. Kabushiki Kaisha Toshiba. Network system using token-passing bus access method for use in a process control system.
- 219/Bom/90. Krishnakumar Rameshwar Trivedi. An improved gear actuating device for two and three wheeler vehicles and two wheeler vehicles comprising the same.
- 220/Bom/90. Bull HN Information Systems Inc., Instruction unit logic management apparatus included in a pipelined processing unit.
- 221/Bom/90. Honeywell Inc. A recovery apparatus for a training torpedo.
- 222/Bom/90. Mr. Ajit Ramchandani. Most advanced heat treatment carbonising/nitriding cycles control system.
- 223/Bom/90. Mohan Das Agrawal. Improved envelope type Answer Copies.
- 224/Bom/90. Mohan Das Agrawal. Four edge saving blade and its razor.
- 225/Bom/90. Hindustan Lever Limited 13th September 89, Great Britain. Liquid detergent.

## 28th August, 1990

- 226/Bom/90. Mohandas Agrawal. Mini-pollution controller for automobiles.

## 29th August, 1990

- 227/Bom/90. Tata Exports Limited. A device for sorting semi-finished wet blue leather into various grades.
- 228/Bom/90. Vijay Vishnu Bhide. Improvement in present Design of verticle/horizontal domestic or commercial flour mill.

## 30th August, 1990

- 229/Bom/90. Hindustan Antibiotics Ltd. Improvements in or relating to direct precipitation of penicillin G-salts from the organic solvent extract.
- 230/Bom/90. Hindustan Organic Chemicals Limited. A novel process for complete gasification of residual carbonaceous materials from the partially oxidised copper chromite catalyst surface.

## ALTERATION

167479 Ante-dated to 28th Jan. 1985.  
(802/Cal/88)

## CLAIM UNDER SECTION 21 (1)

The claim made by LINDHU PTY LTD., Under Section 20(1) of the Patents Act, 1970 to proceed the application for Patent No. 166024 (163/Del/86) in their name has been allowed.

## AMENDMENT PROCEEDINGS UNDER SECTION 57

Notice is hereby given that GIRIVAS VISWANATH SHET, Mysore, Sandal Products, P.B. No. 27, Amaravathy, Cochin-682011, Kerala, has made an application under Section 57 of the Patents Act, 1970, for amendment of Application and specification of their Application for Patent No. 166930 for "A PROCESS FOR PREPARING AN ANTI-MOSQUITO LOTION".

The amendments are by way of correction. The application for amendments and the proposed amendments can be inspected free of charge at the Patent Office Branch, 61, Wallajah Road, Madras-600002, or copies of the same can be had on payment of the usual copying charges. Any person interested in opposing the application for amendment may file a Notice of Opposition on prescribed Form-30 within 3 months from the date of the notification at the Patent Office, Madras-2. If the written Statement of opposition is not filed with the Notice of Opposition, it shall be left within one month from the date of filing the said Notice.

## AMENDMENTS PROCEEDINGS UNDER SECTION 57.

Notice is hereby given that SCHUBERT & SALZER MASCHINENFABRIK AG., a German Company, of Friedrich-Ebert Strasse 84, 8070 Ingolstadt, Germany, have made an application under Section 57 of the Patents Act, 1970 for amendment of application and specification of their application for patent No. 166492 for "A METHOD AND AN APPARATUS FOR THREAD JOINING IN AN OPEN END SPINNING APPARATUS". The amendments are by way of correction. The application for amendments and the proposed amendments can be inspected free of charge at the Patent Office Branch, 61, Wallajah Road, Madras-600 002, or copies of the same can be had on payment of the usual copying charges. Any person interested in opposing the application for amendment may file a notice of opposition on prescribed Form-30 within 3 months from the date of the Notification at the Patent Office, Madras-2. If the written Statement of Opposition is not filed with the Notice of Opposition it shall be left within one month from the date of filing the said Notice.

## PATENTS SEALED

165880 165906 165908 166015 166020 166031

CAL—3

DEL—NIL

BOM—NIL

MAS—3.

## RENEWAL FEES PAID

146061 146370 146469 146725 146725 146975 147213 147485 147897  
148257 149047 149134 149856 149929 150223 150431 150936 151767  
151787 151895 151962 151992 152529 152725 152743 152748 152803  
152804 152870 152983 153040 153049 153089 153450 153537 154225  
154278 154674 154802 154815 154867 155111 155483 155567 155694  
156453 156523 156645 156671 156729 156768 157000 157079 157117  
157307 157386 157431 157556 157617 157818 157874 157895 158008  
158500 159506 159583 159682 159685 159723 160699 160851 160924  
160965 160966 161078 161622 161677 161744 161776 161945 162105  
162191 162217 162425 162485 162830 163356 163405 163527 163597  
163867 163897 164079 165581 165583 165584 165657 165684 165685  
165740 165743 165747 165793 165841 165842 165843 165845 165848  
165903 165988.

## RESTORATION PROCEEDINGS

(1)

Notice is hereby given that an application for restoration of Patent No. 164185 dated the 17th July 1985 made by Hyderabad Industries Ltd on the 20th February 1990 and notified in the Gazette of India, Part III, Section 2 dated the 26th May 1990 has been allowed and the said Patent restored.

(2)

Notice is hereby given that an application for restoration of Patent No. 163287 dated the 17th February 1986 made by Dhruvarayan Chowrashiya on the 28th February 1990 and notified in the Gazette of India, Part III, Section 2 dated the 26th May 1990 has been allowed and the said Patent restored.

(3)

Notice is hereby given that an application for restoration of Patent No. 161224 dated the 22nd February 1984 made by Energy Conversion Device, Inc. on the 21st February 1990 and notified in the Gazette of India, Part III, Section 2 dated the 26th May 1990 has been allowed and the said Patent restored.

## COMPLETE SPECIFICATION ACCEPTED

Notice is hereby given that any person interested in opposing the grant of patents on any of the Applications concerned, may, at any time within four months of the date of this issue or within such further period not exceeding one month applied for on Form 14 prescribed under the Patents Rules, 1972 before the expiry of the said period of four months, give notice to the Controller of Patents on the prescribed Form 15, of such opposition. The written statement of opposition should be filed along with the said notice or within one month of its date as prescribed in Rule 36 of the Patents Rules, 1972.

The classifications given below in respect of each specification are according to Indian Classification and International Classification.

A limited number of printed copies of the specifications listed below will be available for sale from the Government of India Book Depot, 8, Kiran Sankar Roy Road, Calcutta, in due course. The price of each specification is Ra. 2/- (postage extra if sent out of India). Requisition for the supply of the printed specifications should be accompanied by the number of the specifications as shown in the following list.

Typed or photo copies of the specifications together with photo copies of the drawings, if any, can be supplied by the Patent Office, Calcutta on payment of the prescribed copying charges which may be ascertained on application to that office. Photo copying charges may be calculated by adding the number of pages in the specification and drawing sheets mentioned below against each accepted specification and multiplying the same by four to get the charges as the copying charges per page are Rs. 4/-.

### स्वीकृत सम्पूर्ण विनिर्देश

एतद्वारा यह सूचना दी जाती है कि सम्बद्ध आवेदनों में से किसी पर पेटेंट अनुदान का विरोध करने के हक्कुक कोई व्यक्ति, इसके निर्गम की तिथि से 4 महीने या अग्रिम ऐसी अवधि जो उक्त 4 महीने की अवधि की समाप्ति के पूर्व पेटेंट नियम, 1972 के तहत विहित प्रपत्र-14 पर आवेदित एक महीने की अवधि से अधिक न हो, के भीतर कभी भी नियंत्रक, एकस्व को ऐसे विरोध की सूचना विहित प्रपत्र-15 पर दे सकते हैं। विरोध सम्बन्धी लिखित वक्तव्य, उक्त सूचना के साथ अथवा पेटेंट नियम, 1972 के नियम 36 में यथाविहित इसकी तिथि के एक महीने के भीतर ही फाइल किए जाने चाहिए।

"प्रत्येक विनिर्देश के संदर्भ में नीचे दिए वर्गीकरण, भारतीय वर्गीकरण तथा अन्तरराष्ट्रीय वर्गीकरण के अनुरूप हैं।"

नीचे सूचीगत विनिर्देशों की सीमित संख्यक में मुद्रित प्रतियाँ, भारत सरकार बुक डिपो, 8, किरण शंकर राय रोड, कलकत्ता में विक्रय हेतु यथासमय उपलब्ध होगी। प्रत्येक विनिर्देश का मूल्य 2/- रु० है (यदि भारत के बाहर भेजे जाएं तो अतिरिक्त डाक खर्च)। मुद्रित विनिर्देश की आपूर्ति हेतु मांग पत्र के साथ निम्नलिखित सूची में यथाप्रवर्णित विनिर्देशों की संख्या संलग्न रहनी चाहिए।

रूपांकन (चित्र आरेखों) की फोटो प्रतियाँ, यदि कोई हों, के साथ विनिर्देशों की टंकित अथवा फोटो प्रतियों की आपूर्ति पेटेंट कार्यालय, कलकत्ता द्वारा विहित लिप्यान्तरण प्रमार उक्त कार्यालय से पत्र-व्यवहार द्वारा सुनिश्चित करने के उपरान्त उसकी अदायगी पर की जा सकती है। विनिर्देश की पूरा संख्या के साथ प्रत्येक स्वीकृत विनिर्देश के सामने नीचे वर्णित चित्र आरेख कागजों को जोड़कर उसे 4 से गुणा करके (क्योंकि प्रत्येक पूरा का लिप्यान्तरण प्रमार 4/- रु० है) फोटो लिप्यान्तरण प्रमार का परिकलन किया जा सकता है।

Ind. Cl. : 170 D-XLIII (4)  
Int. Cl. : C 11 D-9/02

167461

#### SOAP BASED DETERGENT COMPOSITIONS.

Applicants: HINDUSTAN LEVER LTD, HINDUSTAN LEVER HOUSE, 165/166 BACKBAY RECLAMATION, BOMBAY-400 020, MAHARASHTRA, INDIA.

Inventor : NAMBU DIRY MAYARA EASWARAN NARAYANAN.

Application No. 91/Bom/1987 filed on 20-3-1987.

Complete after provisional left on 7-6-1988.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office Branch, Bombay-13.

#### 9 Claims

A soap-based detergent composition of the type comprising (A) water-soluble salts of monocarboxylic acids containing in the range of 8 to 22 carbon atoms, wherein—

- the salts of said acids having 16 or more carbon atoms comprise from 60% to 100% by weight of the total water-soluble salts of the monocarboxylic acids;
- the salts of said acids having 14 or less carbon atoms comprise upto 40% by weight of the total water-soluble salts of the monocarboxylic acids; and

(B) conventional ingredients such as herein described characterised in that the composition comprises from 1 to 20% by weight of the composition of water soluble organic salts of formula



wherein  $R_1$  is alkyl, alkenyl or alkynyl,

$R_2$  with respect to each occurrence are the same or different and are selected from H, alkyl and alkenyl groups,

$R_3$  with respect to each occurrence are the same or different and are selected from H, alkyl and alkenyl groups,

$n$  is 2, 3 or 4, and

$M$  is a cation providing water soluble properties.

Prov. Specn. 12 Pages.

Compl. Specn. 15 Pages.

Drg. Nil.

Drg. Nil.

Ind. Cl. : 119A+B+E [XXI(3)]  
Int. Cl. : D 03 C-3/00, D 04 B-15/84

167462

#### AN IMPROVED JACQUARD.

Applicant: JOHN T. HARDEKAR (INDIA) PRIVATE LIMITED A COMPANY INCORPORATED UNDER THE INDIAN COMPANIES ACT 1913, HAVING ITS REGISTERED OFFICE AT GANPATRAO KADAM MARG, LOWER PAREL, BOMBAY-400 013, MAHARASHTRA, INDIA.

Inventor : MR. DEEPAK HEMENDRA DAVE.

Application No. 171/Bom/1987 filed Jun. 1, 1987.

Complete after provisional left on Aug. 31, 1988.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office Branch, Bombay-13.

#### 3 Claims

An improved jacquard inter alia having two side frames (6 in fig. 2) a tilting shaft accommodated in a top stand, top horizontal block (1 in fig. 2) having a finger grate (25) suspended therefrom with its fingers pointing downwards, a bottom horizontal block (A in fig. 2) having a shallow grate, a back shaft connected to the loom through chain drive

shaft, a pair of cylinders having four faces or sides, each face or side drilled with several holes in rows and columns, a chain of cards with perforations on each card in a pattern similar to the holes on the faces of the cylinders but their number and places depending upon the design of the cloth to be woven, hooks kept upright in a perforated hook plate fixed on to the bottom board, the said hooks being lifted by the cross bars of the said shallow grate and finger grate alternatively characterised in that its' two side frames (6) (Figs. 1 and 2A) extend upwards, each incorporating a hole with self aligning bushes (34) suspended therein with a tilting shaft (35) fitted in the said suspended bushes (34), (Fig. 8), its top horizontal block (1) has a shallow grate fixed to it whereas its bottom horizontal block (1A) has a finger grate (25) fixed to it with its fingers pointing upwards, the said bottom horizontal block (1A) being fitted below the backgrate (36) with a minimum distance of eight inches between the top and the bottom block (Fig. 2A), its backshaft (29) is connected to the loom (37) through chain drive shaft (29A), by chain 39A connecting sprockets (27) and (27C) and chain 39 connecting sprockets (27B) and (27A), the said backshaft having a pair of eccentric (40) mounted on its either end, the said eccentric (40) being connected to the bracket (60) on horizontally moving slides (41) on either side of the jacquard through a threaded rod (42) and a swivel casting (43), its two cylinders (8) being five sided are connected to the said slides (41) one cylinder each on either end of the said slides (41) giving horizontal motion to the said pair of cylinders (8) moving one of the said cylinder towards and the other cylinder away from the needle board (44) for every pick; (Figs. 11 and 12); has a pair of peg wheels (13) having studs on the rim of the said wheels, one of the said peg wheel being keyed on one end of an auxillary shaft (45) rotating on cylinder bearings (49) the said auxillary shaft (45) inter alia connected by a series of sprockets (28 and 28A) and chain to the back shaft (29) and the other peg wheel (13), mounted on an off centre pin (46) the said pin (46) being fixed on the opposite cylinder bearing (49), the said peg wheels (13) being connected to each other through a pair of level wheels (14) mounted on level shaft (15); and having a pair of star wheels (12) being five sided wheels with five slots (47) cut at 72°, each mounted on the extended end of the cylinder shaft (10) one on each cylinder shaft (10); each of the said peg wheels (13) is in turn connected to and placed in close contact with one of the said star wheels (12) such that for every pick a stud of the alternate peg wheel (13) engages in the slot (47) of the corresponding star wheel (12) rotating it and the cylinder (8) on which it is mounted through 72° (Figs. 3A, 13 and 22), it has two grooves (52) one each near the either ends of the said cylinders (8) and two pairs of 'U' shaped brackets called card strippers (17) one each fitted in the groove (52) but not touching the cylinder (8) such that when the cylinders (8) rotate the cards from the chain of cards (26) are stripped out from the cylinders (8) preventing them again going round the cylinder (8), (Fig. 20), and a clutch (Fig. 6) is provided on the backshaft (29) the said clutch being engaged with a double sprocket wheel (28) kept revolving free on the back shaft (29), one end of which double sprocket wheel (28) is in turn connected by a series of chains and sprockets with the auxillary shaft (45) with peg wheel (13) (Fig. 13) and the other end of the said sprocket wheel (28) is connected by a chain (33) (Fig. 6) to a handle such that by disengaging the said clutch, the loom (37) is disconnected from the cylinders (8) and the said handle can be moved to rotate the cylinders (8) and two off centre bushes (48) are provided on the said auxillary shaft (45) mounted with a peg wheel (13) so that the said shaft (45) with peg wheel can be raised or lowered to get proper contact of the said peg wheel (13) with the said star wheel (12).

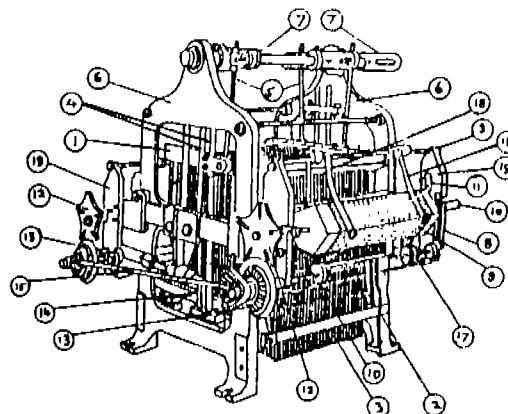


Fig. 1

Prov. Specn. 23 Pages.  
Compl. Specn. 27 Pages.

Drgs. 4 Sheets.  
Drgs. 6 Sheets.

Ind. Cl.: 32 A 1 IX (1)

167463

Int. Cl.: C 09 B-62/00, 62/002, 62/008, 62/44, 62/45.

#### A PROCESS FOR THE PREPARATION OF NOVEL MON-OAZO REACTIVE DYES HAVING ATLEAST TWO REACTIVE SYSTEMS.

Applicant: JAYSYNTH DYECHEM LIMITED.

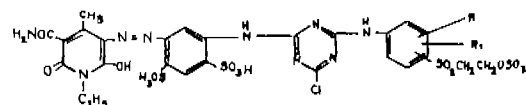
Inventor: DR. GOLE SHRIKANT HARI.

Application No. 363/Bom/1987 filed on 14-12-1987.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office Branch, Bombay-13.

#### 2 Claims

A process for the preparation of novel monoazo reactive dyes having at least two reactive systems and being of the formula I



Formula I

shown in the accompanying drawings, wherein R is hydrogen or methoxy and R<sub>1</sub> is hydrogen, methyl or methoxy, said process comprises:

- (i) condensing 1-ethyl-3-aminocarbonyl-4-methyl-5 [2, 4-disulfonic acid 5-(3, 5-dichloro)-s-triazniyl] aminophenyl azo] 6-hydroxypyridine-2-one trisodium salt with the condensing agent (B-sulfatoethyl sulfonyl) aniline or its derivative such as herein described in an aqueous medium at 0°C-55°C and pH 5-7. 5;
- (ii) precipitating the resulting monoazo reactive dye of the formula I with an alkali metal salt such as herein described;
- (iii) filtering the monoazo reactive dye of the formula I; and
- (iv) drying the monoazo reactive dye of the formula I at 50°C-70°C.

Compl. Specn. 8 Pages.

Drg. 1 Sheet.

Ind. Cl. : 32 A 1 IX (1)

167464

Int. Cl. : C 02 B-62/002, 62/006, 62/01.

**A PROCESS FOR THE PREPARATION OF NOVEL TRISAZO REACTIVE DYES HAVING AT LEAST TWO REACTIVE SYSTEMS.**

Applicant : JAYSYNTH DYECHEM LIMITED.

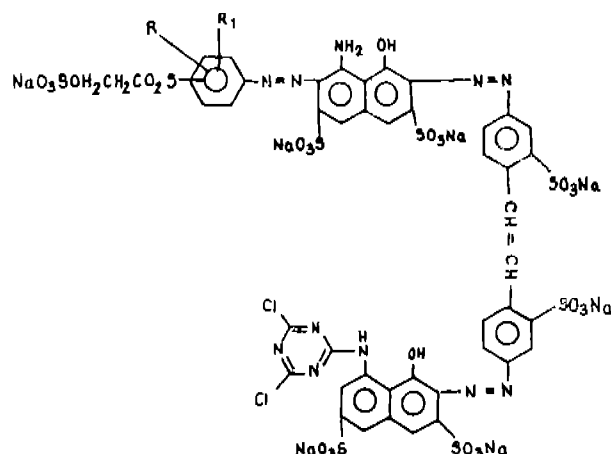
Inventor : DR. GOLE SHRIKANT HARI.

Application No. 366/Bom/1987 filed on 14-12-1987.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office Branch, Bombay-400 013.

**2 Claims**

A process for the preparation of novel trisazo reactive dyes having at least two reactive systems and being of the formula I shown in the accompanying drawings,

**Formula I**

wherein R is hydrogen or methoxy and  $R_1$  is hydrogen, methyl or methoxy, said process comprises :

(i) condensing a monoazo reactive dye such as herein described with a reactive intermediate such as herein described in an aqueous medium at 0-5°C and pH between 6.5-7.0;

(ii) further condensing the resulting disazo reactive chromophore with a condensing agent such as herein described in an aqueous medium at 0-5°C and pH 6.5-7.0;

(iii) stabilising the resulting reactive dye of the formula I with a buffer such as herein described;

(iv) precipitating the reactive dye of the formula I with an alkali metal salt such as herein described;

(v) filtering the reactive dye of the formula I, and

(vi) drying the reactive dye of the formula I at 50-70°C.

Compl. Specn. 8 Pages.

Drgs. 3 Sheets.

Ind. Cl. : 32 B IX (1), 40B IV (1).

167465

Int. Cl. : C 07 B-35/02, B 01 J-21/04.

**PROCESS FOR PREPARING A NICKEL TRANSITION ALUMINA CATALYST.**

Applicants : HINDUSTAN LEVER LIMITED, HINDUSTAN LEVER HOUSE, 165/166 BACKBAY RECLAMATION, BOMBAY-400 020.

Inventors : (1) VAN BEEK WILHELMUS PETRUS, (2) DEN HOED MS. WILMA, (3) VAN LEEUWEN WILLEM AART, (4) POELS EDUARD KAREL, (5) VISSER CORNELIS.

Application No. 159/Bom/1988 filed on 3-6-1988.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office Branch, Bombay-13.

**7 Claims**

A process of preparing a nickel upon transition alumina catalyst containing 5-40% ww of nickel, with an active nickel surface area between 80 and 300 m<sup>2</sup>/g of Ni, characterised in that the transition alumina satisfies the following x-ray diffraction pattern;

d (10 <sup>-10</sup> m)	I/I <sub>0</sub>
1.39	100
2.85	75-85
2.72	60-80
2.43	70
2.01	45-80

comprising the steps of impregnating alumina particles with an ammoniacal metallic solution having a pH from 9 to 11, evaporating to dryness, calcining and reducing.

Compl. Specn. 14 Pages.

Drgs. 2 Sheets.

Ind. Cl. : 29 A [XLI (2)], 68 E 1 [LVII (3)]

167466

Int. Cl. : G 05 B-6/00, 13/00.

**PROCESS CONTROLLER HAVING IMPROVED COMBINATION OF FEEDFORWARD FEEDBACK CONTROL.**

Applicant : KABUSHIKI KAISHA TOSHIBA, A CORPORATION DULY ORGANIZED AND EXISTING UNDER THE LAWS OF JAPAN, LOCATED AT 72 HORIKAWA-CHO, SAIWAI-KU, KAWASAKI-SHI, JAPAN.

Inventors : (1) HIROI KAZUO, (2) ITO KOJIRO.

Application No. 181/Bom/1988 filed on 27-6-1988.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office Branch, Bombay-13.



## 3 Claims

A process controller having improved combination of feedforward feedback control comprising :

(a) a feedback circuit including :

first means/comparator part (10) for supplying a first difference signal output (S 10) corresponding to a difference between a control target variable SV and a process controlled variable X (PV),

second means/converter (16) for supplying a manipulation/second signal output (MVn), which is obtained by converting the first difference signal output based on predetermined transfer function, and

third means/process (18) controlled on the basis of the second signal output, for providing the control result, and

(b) a feedforward circuit including :

fourth means/change arithmetic unit (20A) responsive to an external signal/disturbance (Dn) and coupled to said second means (16) for detecting a static characteristic compensation signal representing a product of the second signal and a quotient obtained by dividing a difference between present and previous external signals with the previous external signal, and

fifth means/adder part (14) coupled to said fourth means (20A), said first means (10) and said second means (16) for supplying a composite signal of the first signal and the static characteristic compensation signal to said second means (16).

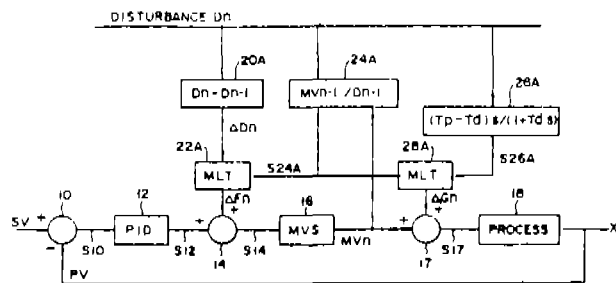


Fig. 2

Compl. Specn. 21 Pages.

Drgs. 4 Sheets.

Ind. Cl. : 132D, B1 [XXXIV (3)]

167467

Int. Cl. : B 01 F—7/00, 5/16.

### A HIGH SPEED MIXING PLANT.

Applicants & Inventors : (1) NAMJOSHI ANAND NARAYAN, (2) PATEL CHIMANLAL GOVINDBHAI, (3) PATEL MANUBHAI BHAILALBHAI & (4) KARNADIKAR SHANKAR GANESH ALL INDIAN NATIONALS OF NAVAYUG INDUSTRIALS AT PLOT NO. 23, GOVT. INDUSTRIAL ESTATE, KANDIVLI (WEST), BOMBAY-400 067, MAHARASHTRA, INDIA.

Application No. 189/Bom/1988 filed on 1st July, 1988.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office Branch, Bombay.

## 2 Claims

A high speed mixing plant comprising :

a chamber partly encased by a jacket for circulation of liquid or steam therewithin and having inlet ports at the top position;

means, such as, anchor stirrer located at a lower level within the said chamber, integral with or rigidly connected to a vertical axis coupled with a geared motor at the central top position of the said chamber;

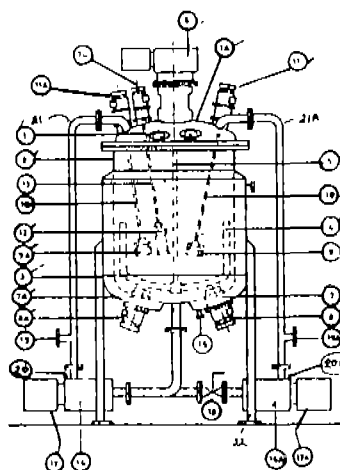
means, such as, dispersers located at lower most position within the said chamber, coupled with motors mounted at the lower off-central positions and to axis coupled with motors mounted at the top off central position of the said chamber;

means, such as, jet flow turbo agitator located within the said chamber, integral with or rigidly connected to an axis coupled with a motor mounted at the off-central upper position of the said chamber;

means, such as, valves provided at the lower position of the said chamber to dispense the suspension in the said chamber to ascertain the stage of mixing;

pipelines with make and break key in combination with phase blender connected to the lower most central position and upper position of the said chamber to circulate the suspension into the said chamber; and

an outlet valve to the said chamber for evacuating the suspension therein after achieving desired stage of phase blending.



Compl. Specn. 15 Pages.

Drg. 1 Sheet.

Ind. Cl. : 132 D C XXIV (3)

167468

Int. Cl. : B 01 F—13/00.

AN IMPROVED METHOD AND AN APPARATUS FOR BLENDING CONTINUOUSLY TWO OR MORE PHASES OF MATERIALS IN DIFFERENT PHYSICAL FORMS.

Applicants & Inventors : (1) NAMJOSHI ANANT NARAYAN, (2) PATEL CHIMANLAL GOVINDBHAI, (3) PATEL MANUBHAI BHAI ALBHAI & (4) KARANDIKAR SHANKAR GANESH.

Application No. 190/Bom/1988 filed on 1-7-1988.

Appropriate Office for Opposition Proceedings (Rule 4 Patents Rules, 1972), Patent Office Branch, Bombay-13.

### 3 Claims

An improved method of blending continuously two or more phases of materials in different physical forms, comprising :

crushing solid phase materials and introducing steadily into a funnel in a column surrounded by a sleeve of liquid phase;

blending into an uniform suspension of the said crushed solid phase and liquid phase materials.

forming an inseparable suspension of the said uniform suspension;

drawing the said inseparable suspension into a chamber maintained under desired temperature;

releasing the said inseparable suspension from the said chamber;

characterised in that the said suspension is further blended and in case found unsatisfactory blending, the said suspension is recycled into the said chamber till same is satisfactorily blended

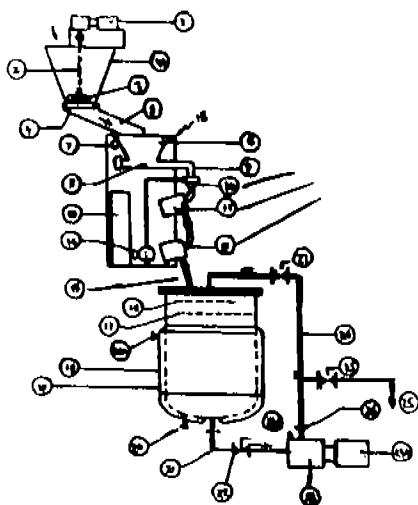


Fig. 1

Compl. Specn. 14 Pages.

Dr. 1 Sheet.

Ind. Cl. : 94 I [XXXIII (4)]

167469

Int. Cl. : B 02 C—4/28, C 13 D—1/06.

A ROLLER FOR EXTRACTING JUICE FROM SUGAR CANE.

Applicant & Inventor : MOHAN PRABHAKARA SHIRGAONKAR, INDIAN NATIONAL, 392-E, SHAHUPURI, KOLHAPUR-416 001, MAHARASHTRA STATE, INDIA.

Application No. 228/Bom/1988 filed on 12-8-1988.

Appropriate Office for Opposition Proceedings (Rule 4, Patent Rules, 1972), Patent Office Branch, Bombay-13.

### 4 Claims

A roller for extracting juice from sugar cane comprising :

a roller body defining a plurality of circumferential grooves on its peripheral cylindrical surface which include—

—a plurality of pipes extending axially through the said roller body and embedded in the said roller body while casting of the said roller body;

—a plurality of cylindrical radial passages drilled and tapped between the bottom of the said grooves and the said pipes; and

—externally threaded nozzles positioned and fitted in the said passage for permitting unrestricted flow of juice through the said pipes.

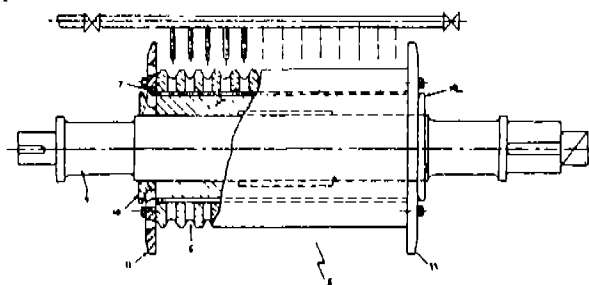


Fig. 2

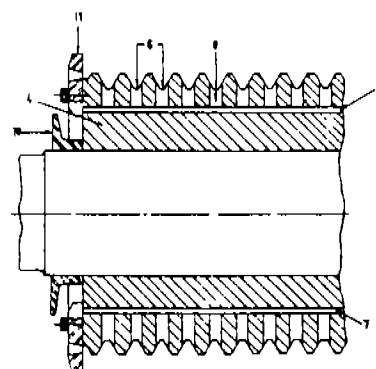


Fig. 3

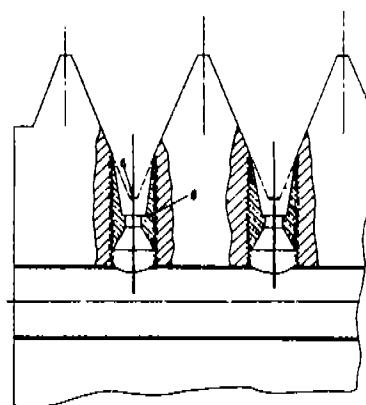


Fig. 6

Compl. Specn. 12 Pages.

Dr. 5 Sheets.

Ind. Cl. : 101 H [XXVII(2)]  
Int. Cl. : E 02 B -7/46

167470

Application No. 309/Cal/1987 filed on April 21, 1987.

**AUTOMATIC GATE FOR MAINTAINING CONSTANT UPSTREAM WATER LEVEL IN RESERVOIRS, WATER-STREAMS, CANALS AND THE LIKE.**

Applicant & Inventor: SHIVRAM SHAMRAO KULKARNI, KALPADRUMA, PLOT NO. 12, PANDURANG COLONY, ERANDVANA-2, PUNE-411 038, MAHARASHTRA, INDIA.

Application No. 250/Bom/1988 filed on 31-8-1988 POST DATED TO 13-10-1988.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office Branch, Bombay-13.

## 2 Claims

Automatic gate for maintaining constant upstream water level in reservoirs, water-streams, canals and the like comprising a flat gate leaf made of suitable steel structure, the said gate leaf attached to a trunnion axle, axis of which is kept at the elevation at which the constant water level in the upstream is to be maintained, characterised in that two lever arms are fixed to the said trunnion axle each having a counter weight fixed at its free end and such that the planes passing through the axis of the said counterweights and the trunnion axis are at right angles, or subtend an acute angle with each other, as a variation a single lever arm attached with a single counterweight offcentrally on the free end is fixedly provided on the trunnion axle, such that the plane passing through the axis of the said single counterweight and the trunning axis subtends an obtuse angle to the plane of the gate leaf at the trunning axis.

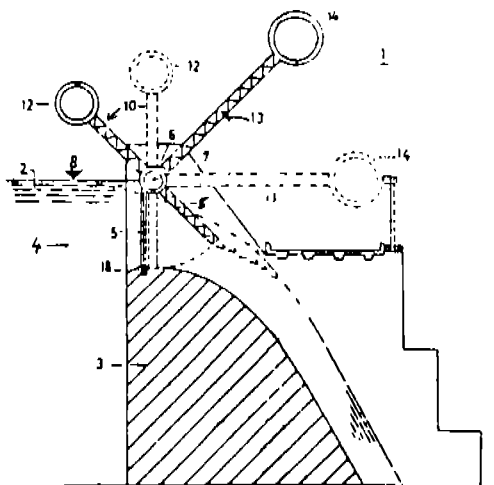


Fig. 1

Compl Specn. 9 Pages.

Drgs. 10 Sheets.

CLASS : 61-B, K & 185-C.  
Int. Cl. : A 23 f 3/00.

167471

**DEVICE FOR BULK STORAGE OF GREEN TEA LEAVES IN FRESH CONDITION.**

Applicant : TEA RESEARCH ASSOCIATION, OF 113 PARK STREET, 9TH FLOOR, CALCUTTA-700 016. WEST BENGAL, INDIA.

Inventor : TORUN CHANDRA BORUAH.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office, Calcutta.

## 7 Claims

A device for the bulk storage of green tea leaves in fresh condition which comprises an open-top chamber consisting of a pair of side walls and a pair of downwardly flared end walls inclined in opposite directions, a number of airpermeable partition members located in inclined disposition within said chamber along the length thereof and in spaced relationship to one another, said inclination corresponding to the inclination of one of said end walls, with the provision that the same can be swivelled, if necessary, to change its inclination in opposite direction, said partition members defining along the length of said chamber of plurality of air-permeable compartments of substantially equal dimensions, the number of compartments being determined by the number of inclined partition members capable of being accommodated within the space allowed by the size of the inclined end walls inclination of the partition member is such that it is capable of forming air space when loaded with tea leaves, each of said compartments being provided with an air-permeable bottom member and means provided below said chamber for injection of air through said air-permeable bottom members when necessary and thereby through said compartments for maintaining green tea leaf loaded in said compartments in fresh condition.

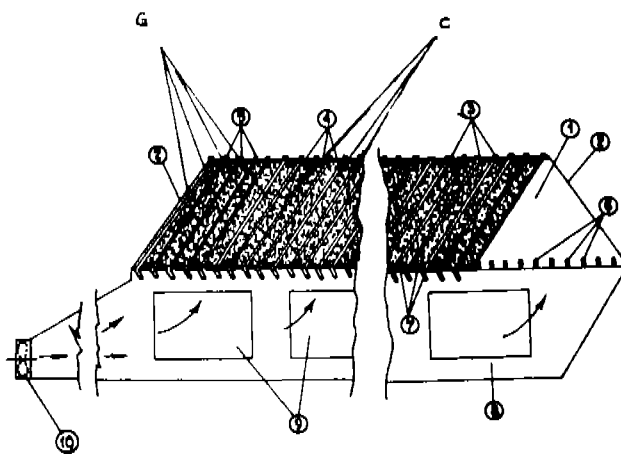


Fig. 1

Compl. Specn. 10 Pages.

Drgs. 3 Sheets.

CLASS : 35-G.  
Int. Cl. : C 04 b 35/00, 35/60.

167472

**A METHOD OF PRODUCING A CERAMIC COMPOSITE BODY OF DESIRED SHAPE.**

Applicant : LANXIDE TECHNOLOGY COMPANY, LP, TRALEE INDUSTRIAL PARK NEWARK, DELAWARE 19711, U.S.A.

Inventors : (1) MARC S. NEWKIRK, (2) SHIRLY L. ZWICKER.

Application No. 362/Cal/1987 filed on May 4, 1987.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office, Calcutta.

## 28 Claims

A method for producing a ceramic composite body of desired shape comprising a preform infiltrated by a ceramic matrix obtained by oxidation of a parent metal to form a polycrystalline material consisting essentially of (i) the oxidation reaction product of said parent metal with one or more oxidants including a vapor-phase oxidant, and, optionally, (ii) one or more metallic constituents, said method comprising the steps of: heating said parent metal optionally having applied thereof a dopant material, to a temperature above its melting point but below the melting point of the oxidation reaction product to form a body of molten metal; contacting a zone of a permeable preform with said body of molten metal, said permeable preform having at least one defined surface boundary spaced from said contacting zone such that formation of said oxidation reaction product will occur into said preform and in a direction toward said defined surface boundary; and at said temperature (a) reacting said molten metal with said oxidant to form said oxidation reaction product, (b) maintaining at least a portion of said oxidation reaction product in contact with and between said molten metal and said oxidant, to progressively draw molten metal through the oxidation reaction product towards the oxidant so that oxidation reaction product continues to form at the interface between said oxidant and previously formed oxidation reaction product that has infiltrated the preform, and (c) continuing said reacting until said polycrystalline material has infiltrated said preform to said defined surface boundary to produce said ceramic composite body having a configuration of said preform.

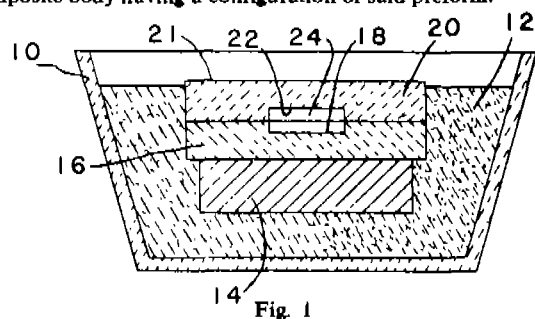


Fig. 1

Compl. Specn. 35 Pages.

Drgs. 4 Sheets.

CLASS: 198-A.

167473

Int. Cl.: B 03 b 4/00, 5/00, 5/10, 5/24.

## A JIG FOR TREATMENT OF MINE RAW MATERIALS, ESPECIALLY HARD COAL.

Applicant: ZABRZANSKIE GWARECTWO WEGLOWE, OF  
ST. LOMPY 11, 41-806 ZABRZE, POLAND.

Inventors: (1) BOLESŁAW JONDRO, (2) JAN JANIK.

Application No. 421/Cal/1987 filed on May 27, 1987.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office, Calcutta.

## 16 Claims

A jig for treatment of mine raw materials, especially hard coal, consisting of a working through divided by a sieve deck, provided at

one shorter side with a chute of a useful mineral feed, and at the opposite shorter side with a chute for collection of the useful mineral concentrate and with at least one hopper slot in the sieve deck to take off the sinking product, coupled with a device for automatic control of the position of the threshold of the slot, provided with a float serving for control of the thickness of the layer of heavy products on the sieve deck, and a drive characterised in that the working through [1] at the longer side is connected with a chamber having a cylindrical shape in the vertical section, in which an elevating wheel is installed, while inside the elevating wheel chamber there is a device to cause pulsation of the liquid, comprising a stationary shelf [29] installed in a deflectable upper wall [9] connected from the top through spring telescope joints [33] with a movable shelf [36] and from below with a movable trapezoidal plate [45], while the movable shelf [36] is provided with a roller [44] encircling on cams [70] mounted on rotational disks [65] separately connected with a disk [63] welded to the main drive shaft [2].

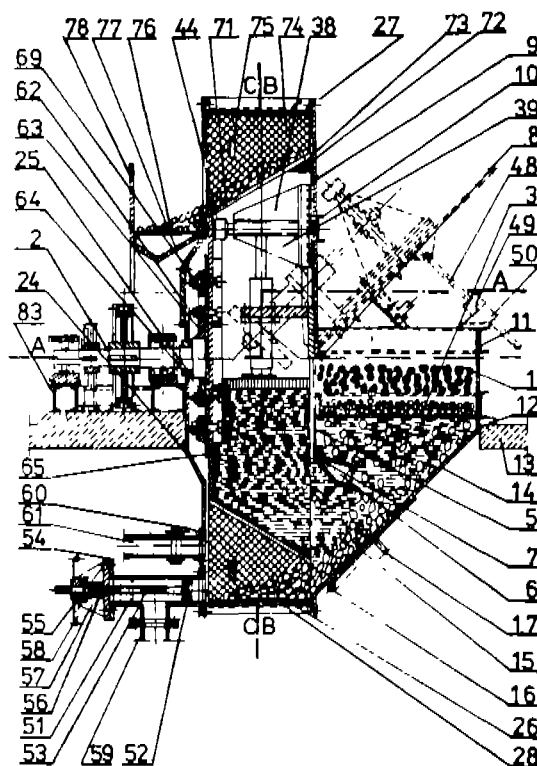


Fig. 1

Compl. Specn. 39 Pages.

Drgs. 6 Sheets.

CLASS: 98-G.

167474

Int. Cl.: B 21 d 53/04.

## AN ELECTRICAL APPARATUS.

Applicant: WESTINGHOUSE ELECTRIC CORPORATION,  
OF WESTINGHOUSE BUILDING, GATEWAY CENTER,  
PITTSBURGH, PENNSYLVANIA 15222, UNITED STATES OF  
AMERICA.

Inventors : RANDALL NIMS AVERY.

Application No. 495/Cal/1987 filed on June 24, 1987.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office, Calcutta.

10 Claims

Electrical apparatus comprising :

a tank having a tank wall,

fluid dielectric means in said tank,

heat producing means in the tank, surrounded by said fluid dielectric means,

and heat exchanger means integrally or removably provided with the said tank wall,

said heat exchanger means having peripheral edges connected to the tank wall, and a plurality of fins which extend in spaced parallel relation between predetermined peripheral edges,

the spaced fins of said heat exchanger means each defining a cavity which is in fluid flow communication with said fluid dielectric means by means of openings in the tank body where the heat exchanger means is removably provided with said tank wall,

said heat exchanger means including a metallic sheet member having a predetermined thickness dimension,

said metallic sheet member having a plurality of folds, including edge folds which increase the thickness dimension along predetermined peripheral edges of said heat exchanger means beyond said predetermined thickness dimension, and spaced transverse folds arranged to provide :

(a) edge fold portions between the spaced fins which function as part of the peripheral edges of said heat exchanger means which are connected to said tank, and

(b) edge fold portions in each fins which are adjacent to other edge fold portions, which adjacent edge fold portions are joined together;

whereby the connection between the heat exchanger means and the tank wall is strengthened without adding significantly to the weight of the heat exchanger means.

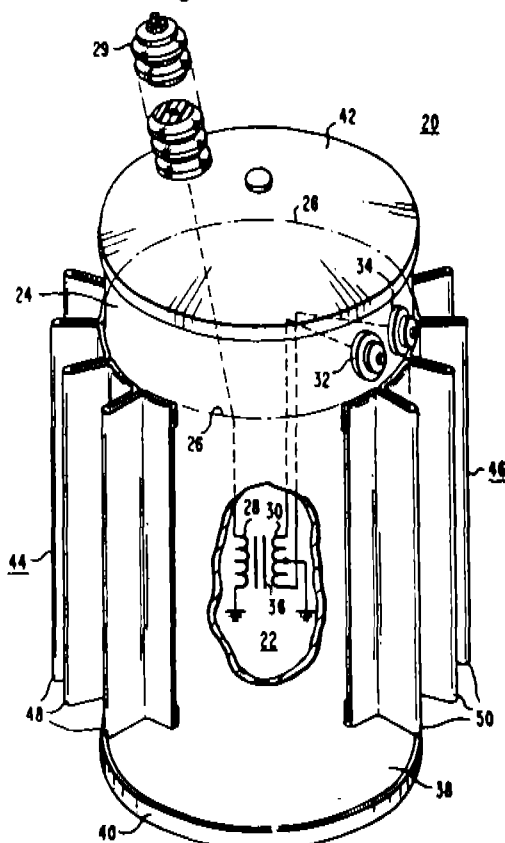


Fig. 1

Compl. Specn. 19 Pages.

Drgs. 9 Sheets.

CLASS : 65-B;  
Int. Cl. : H 01 F 3/00

167475

METHOD OF CONSTRUCTING A FIXTURE FOR A WINDOW OF A MAGNETIC CORE CONSTRUCTED OF AMORPHOUS METAL AND A MAGNETIC FIXTURE THEREBY PRODUCED.

Applicant : WESTINGHOUSE ELECTRIC CORPORATION, OF WESTINGHOUSE BUILDING, GATEWAY CENTER, PITTSBURGH, PENNSYLVANIA 15222, UNITED STATES OF AMERICA.

Inventors : FRANK HENRY GRIMES.

Application No. 545/Cal/87 filed on July 15, 1987.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office, Calcutta.

8 Claims

A method of constructing a fixture for a window of a magnetic core constructed of amorphous metal, while accurately dimensioning and supporting said magnetic core, comprising the steps of providing first and second elongated sheet metal members each having first and second ends, and a longitudinal axis which extends between said ends, providing first and second pairs of openings in said first member, said first and second pairs of openings being spaced apart along the longitudinal axis of said first member, with said spacing being a variable selected according to a window dimension of the magnetic core to be supported, and with the dimension from each pair of openings to the adjacent end of the first member being a constant, regardless of the dimensions of the core window, providing first, second, third and fourth pairs of openings in said second member, said first, second, third and fourth pairs of openings being spaced apart along the longitudinal axis of said second member, with the spacings between the pairs being variables selected according to window dimensions of the magnetic core to be supported, and with the dimension from the first and fourth pairs of openings to the respectively adjacent ends of said second member being a constant, regardless of the dimensions of the core window, providing an elongated tongue at each of the first and second ends of one of said members, and an elongated transversely extending slot adjacent to each of the first and second ends of the other of said members dimensioned to receive a tongue providing an offset joggle in each of said tongues having a predetermined dimension, using a predetermined pair of openings to position each joggle, bending the member having the slots, using pairs of openings to locate the bends, such that each of said slots is located on a radius of a bend, providing a pair of spaced right angle bends in each of said first and second members, using a predetermined pair of openings to locate each bend, to define substantially U-shaped configurations for each of said first and second members, and assembling the first and second members such that the offset joggle of the tongues of the tongued member enter the slots and rigidly supporting by engaging the inner wall of the slotted member, with the predetermined dimension of joggle controlling the position of the tongued member on the radii of the bends which extend through the slots of the slotted member, as well as controlling the dimension between the ends of the slotted member by preventing said ends from moving towards one another.

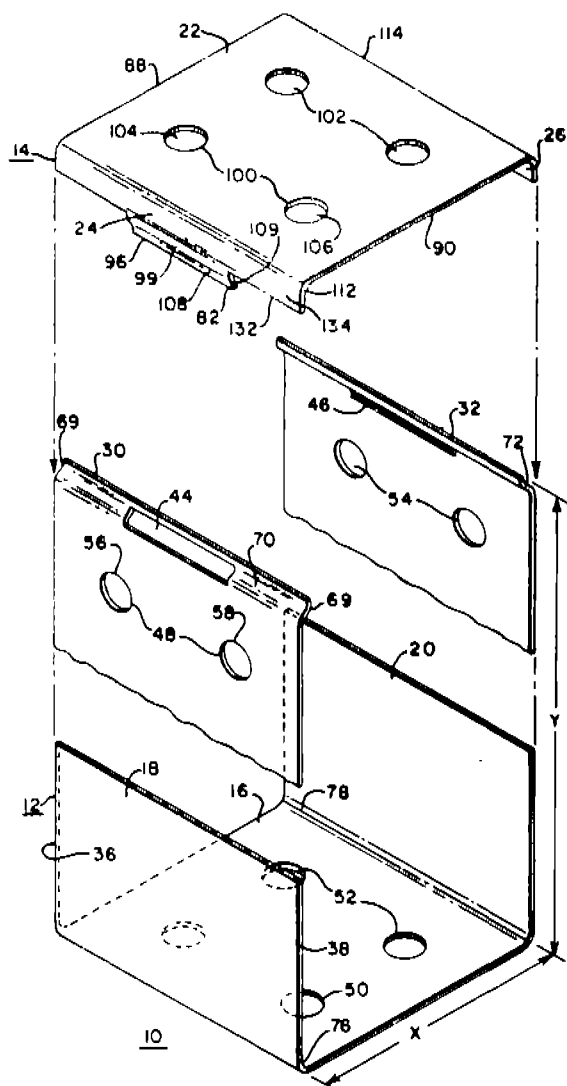


Fig. 1

Compl. Specn 17 pages

Drgs. 5 sheets.

CLASS : 48 A 3.

167476

Int. Cl. : B 65 H 75/34.

**COLLAPSIBLE STEEL DRUMS FOR CABLES.**

Applicant & Inventor : **ARUN KUMAR BHATTACHARYA**,  
DL-131-NARAYAN, HOUSING CO-OPERATIVE SOCIETY,  
SECTOR-I, SALT LAKE, CALCUTTA-700 091, WEST BENGAL,  
INDIA.

Application No. 964/Cal/1987 filed on 9th December, 1987 left on  
13th July, 1988.

Appropriate Office for Opposition Proceedings (Rule 4, Patents  
Rules, 1972), Patent Office, Calcutta.

5 Claims

A collapsible Steel Drum having three essential parts viz. a central cylindrical belly and two wheel shaped flanges at its ends characterised in that the said central belly is made of two collapsible

semicircular segments each segment having a plurality of equally spaced tube or shell assemblies fixed on and interconnected through collapsible supports and hinges to form together a full circle of the Central cylinder or to remain collapsible when not in use.

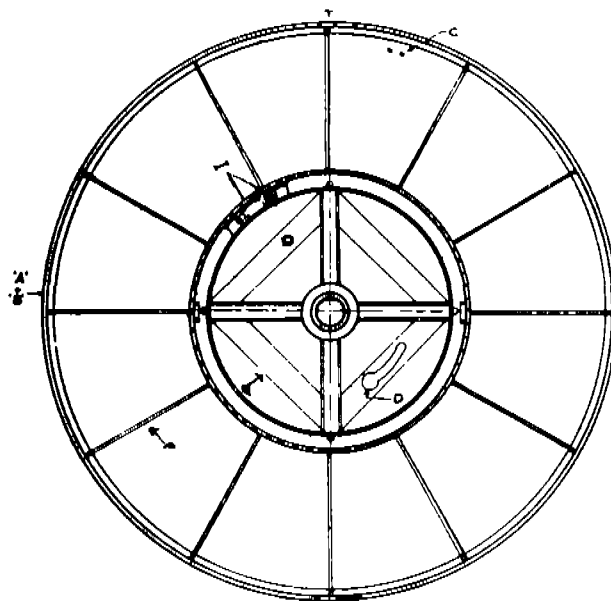


Fig. 3

Compl. Specn. 5 Pages.  
Provn. Specn. 3 Pages.

Provisional.  
Drgs. 2 Sheets.

CLASS : 35 E.

167477

Int. Cl. : C 04 B 35/04.

**PROCESS FOR THE MANUFACTURE OF BASIC REFRACTORY BRICKS.**

Applicant : **ORISSA CEMENT LIMITED, OF RAJGANGPUR-770017, DIST. SUNDARGARH, ORISSA.**

Inventors : (1) **DR. SHYAM LAXMAN KOLHATKAR**, (2) **DR. SANTOSH KUMAR MAHAPATRA**.

Application No. 652/Cal/1988 filed on August 3, 1988.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office, Calcutta.

4 Claims

A process for the manufacture of basic refractory bricks which comprises preparing a mixture of the following ingredients in the following proportions—

Fused and/or sintered

Magnesia—95 to 75% by wt,

Graphite—5 to 25% by wt.

Carbon Black—2 to 10% by wt.

Powdered Pitch—2 to 10% by wt.

Urea-formaldehyde resin—0.5 to 5 parts by wt.

Total 100% by wt.

intimately mixing the above ingredients, moulding the mix into the shape of bricks and subjecting the shaped bricks to baking at above 100°C to 300°C.

Compl. Specn. 5 Pages.

Drgs. nil.

CLASS : 32 F1 + 55 D2  
Int. Cl. : C 07 C 127/00, 127/19.

167478

PROCESS FOR THE PRODUCTION OF [N-(HALOBENZ-  
ZOYL)-N'-2-HALO-4-[1, 1, 2-TRIFLUORO-2-(TRIFLUO-  
ROMETHOXY) ETHOXY-PHENYL-UREAS.

Applicant : ISTITUTO GUIDO DONEGANI S.P.A. OF VIA  
CADUTI DEL LAVORO, 28100 NOVARA, ITALY.

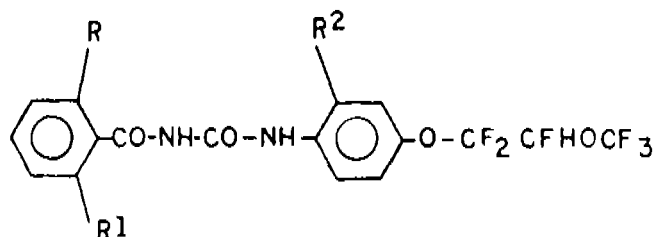
Inventors : (1) PIETRO MASSARDO, (2) GIOVANNI  
MEAZZA, (3) FRANC BETTARINI, (4) PAOLO CASTORO, (5)  
VINCENZO GAPRIOLI.

Application No. 733/Cal/1988 filed on September 1, 1988.

Appropriate Office for Opposition Proceedings (Rule 4, Patents  
Rules, 1972), Patent Office, Calcutta.

## 1 Claim

A process for the production of N-(halobenzoyl)-N'-2-halo-4-[1, 1,  
2-trifluoro-2-(trifluoromethoxy)-ethoxy]-phenyl-ureas having the  
formulae II shown in the accompanying drawings wherein :



Formula II

R, R<sup>1</sup>, which can be either equal to, or different from, each other,  
are H, F or Cl; at least one of R and R<sup>1</sup> is either F or Cl;

R<sup>2</sup> is either F or Cl;

which comprises reacting a halobenzamide of formulae VII with a 2-  
halo-4-[1, 1, 2-trifluoro-2-(trifluoromethoxy)-ethoxy]-phenyl-  
isocyanate of formulae VIII as illustrated in Fig. 2 of the drawings  
wherein :

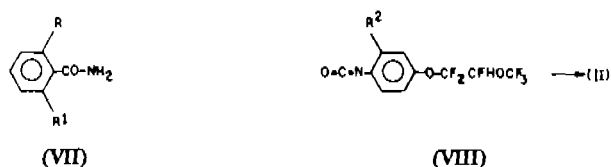


Fig. 2

R, R<sup>1</sup>, which can be either equal to, or different from, each other,  
are H, F or Cl; at least one of R and R<sup>1</sup> is either F or Cl;

R<sup>2</sup> is either F or Cl;

said reaction being carried out in an inert solvent and at a temperature  
comprised between 0°C and the boiling temperature of the  
mixture.

Compl. Specn. 16 Pages.

Drgs. 2 Sheets.

CLASS :  
Int. Cl. : C 07 C 102/00, 103/00, 135/00.

167479

IMPROVED PROCESS FOR MAKING SUBSTITUTED CAR-  
BOXYLIC ACIDS AND DERIVATIVES THEREOF.

Applicant : THE LUBRIZOL CORPORATION, 29400 LAKE-  
LAND BOULEVARD WICKLIFFE, OHIO 44092 U.S.A.

Inventor : WILLIAM MONROE LESUER.

Application No. 802/Cal/88 filed on 26th September, 1988.

Divisional of Application No. 50/Cal/85, Ante-dated to 28th  
January, 1985.

Appropriate Office for Opposition Proceedings (Rule 4, Patents  
Rules, 1972), Patent Office, Calcutta.

## 4 Claims

An improved method for preparing a substituted carboxylic acid  
derivative composition from substituted carboxylic acid or derivative  
obtained by the process of claim 1 of Application No. 50/Cal/85  
(164211) which comprises reacting by heating at least one said carbox-  
ylic acid or derivative with a reactant selected from one or more.

(a) amines characterized by the presence within the structure of at  
least one H-N group as herein described, the composition being  
optionally post-treated with a post-treating agent as herein  
described.

Compl. Specn. 51 Pages.

Drg. 1 Sheet.

CLASS : 179C  
Int. Cl. : B 65 D 83/04, 85/56

167480

CAPSULE FOR DRUGS OR LIKE MATERIAL.

Applicant : SU HEUNG CAPSULE COMPANY LIMITED OF  
296-10 SONGNAE-DONG NAM-KU BUCHON-SHI KYONG  
KI-REPUBLIC OF KOREA.

Inventors : (1) KYU-MYUNG KIM, (2) JOO-HWAN YANG, (3)  
TAI-SU EOM.

Application No. 970/Cal/88 filed on November 25, 1988.

Appropriate Office for Opposition Proceedings (Rule 4, Patents  
Rules, 1972), Patent Office, Calcutta.

## 5 Claims

A capsule for drugs or like material in which a cap portion and a  
body portion are telescopically joined together, comprising :

A pre-locking projection formed near the lower end of the cap  
portion; and a pre-locking depression formed near the upper end of  
the body portion, provided in such a manner that the said projection  
and depression can be engaged together to form a pre-locking state,  
the height of the pre-locking projection being smaller than the depth  
of the pre-locking depression.

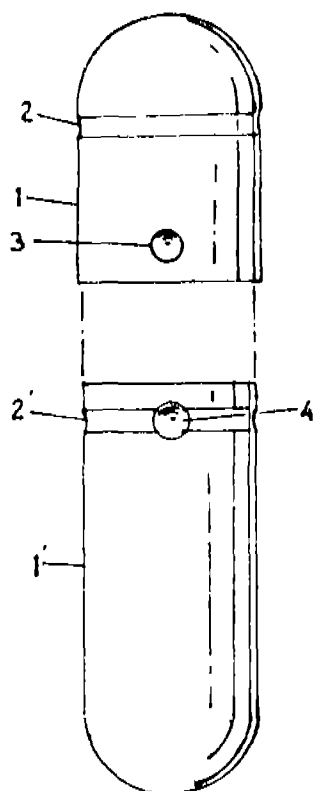


Fig. 1

Compl. Specn. 10 Pages.

Drgs. 3 Sheets.

## REGISTRATION OF DESIGNS

The following design have been registered. They are not open to inspection for a period of two years from the date of registration except as provided for in Section 50 of the Designs Act, 1911.

The date shown in the each entries are the date of registration in the entry.

- Class 1 No. 162021 Surender Pal, 8002/12 Shora Kothi, Clock Tower Subzi Mandi, Delhi-110007 (India), Indian National. "Fan". April 6, 1990.
- Class 1 No. 162155 Teekchand Damji Bheda, Indian Citizen, trading as T.V. Enterprises, 52-A, Manimahar, Shop No. 9, C.P. Tank, V.P. Road, Bombay-400004, Maharashtra, India. "Tomato Slicer". May 29, 1990.
- Class 1 No. 162195 Wasmake Industries, Indian Proprietary firm of 40, Strand Road, 3rd floor, Room No. 18/6, Calcutta-700001, W.B., India. "Connector for structures formed of extruded channel". June 12, 1990.
- Class 3 No. 161956 Smt. Lalita Gupta, India, Indian National, J-4/80-A, D.D.A. Flats, Kalkaji, New Delhi-110019, India. "Insect Killing Device". March 20, 1990.

- Class 3 Nos. 161966 & 161967 Johnson & Johnson Consumer Products, Inc., 501 George Street, New Brunswick, New Jersey 08903, U.S.A., "Toothbrush". March 21, 1990.
- Class 3 Nos. 162010 & 162012 Eagle Flask Industries Limited, an Indian Company, 144/46, Sheriff Devji Street, Bombay 400003, Maharashtra, India. "Thermoware". April 4, 1990.
- Class 3 No. 162091 Fumakilla Limited, a Japanese Company, 11, Kanda-Mikuracho, Chiyoda-ku, Tokyo, Japan. "Electric Heat Fumigation Apparatus". May 11, 1990.
- Class 3 Nos. 162178 & 162179 Marico Industries Limited, Kan-moor House, 281/287 Narsinatha Street, Bombay-400009, Maharashtra, India. "Bottle". June 8, 1990.
- Class 3 No. 162219 Malson Electronics, Indian Partnership Firm, 1/10, Prabhadevi Industrial Estate, 1st floor, Veer Savarkar Road, Prabhadevi, Bombay 400025, Maharashtra, India. "Insertion Tool". June 15, 1990.
- Class 3 No. 162340 Rainbow Cosmetics, 50 C Bangur Avenue, Calcutta-700055, W.B., India, Indian Proprietary Firm. "Container". July 17, 1990.
- Class 3 No. 162421 M.G. Shahani & Co. (Delhi) Private Limited, 34-B, Connaught Place, New Delhi-110001, India, a private limited company. "Bottle". August 10, 1990.
- Class 4 No. 162053 Melmoking, 13/24, East Patel Nagar, New Delhi-110008, India, Indian Partnership Concern. "Dinner Plate". April 24, 1990.
- Class 10 Nos. 162216 & 162217 ICT Industries, Indian Partnership Firm of Swastik Industries, Chincholi bunder Road, Off S.V. Road, Malad West, Bombay-400064, Maharashtra, India. "Footwear". June 15, 1990.
- Class 12 No. 162016 riche Rich Products, A-18, Ram House, Middle Circle, Connaught Place, New Delhi-110001, India Indian Proprietary Firm. "Toy". April 4, 1990.
- Class 12 No. 162435 Sanjay Kapur of Aap Ki Pasand, a sole proprietary firm of 15, Netaji Subhash Marg, New Delhi-110002, India. "Packing bag". August 23, 1990.

*Copyright extended for the 2nd period for five years.*

Nos. 156290, 156379, 156429, 156405, 156490, 158434 & 160694. .... Class 3.

*Copyright extended for the 3rd period for five years.*

Nos. 156290, 156379, 156429, 156405, 156490, 158434 & 160694. .... Class 3.

R. A. ACHARYA  
Controller General of Patents,  
Designs and Trade Marks.

भा० सं० मु० फ०—जी० 307 जी० आई०/90—300.

MGIPF—G 307 GI/90—300.